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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,386	12/19/2005	Junji Morita	070365-0019	1649
20277 MCDERMOT	7590 03/16/2011 T WILL & EMERY LLI	EXAMINER		
600 13TH STREET, N.W.			MARTIN, ANGELA J	
WASHINGTO	ON, DC 20005-3096		ART UNIT	PAPER NUMBER
			1727	
			MAIL DATE	DELIVERY MODE
			03/16/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

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Application No.	Applicant(s)					
10/561,386	MORITA ET AL.					
Examiner	Art Unit					
ANGELA J. MARTIN	1727					

	ANGELA J. MARTIN	1727			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DY Extensions of time may be available under the provisions of 37 OFR 1.13 after SX (6) MONTHS from the mailing date of this communication. A state of the major state of the communication of the communica	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 30 Ne 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the or	epted or b) objected to by the l drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Praffsportson's Fatront Drawing Review (FTO-942)	4) Interview Summary Paper No(s)/Mail Da				

Notice of References Cited (PTO-892) Notice of Draftsocracu's Fatroit Drawing Review (FTO-947)	Interview Summary (PTO-413) Paper No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Patent Application	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/30/10 has been entered.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 7 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for hydrocarbon-based gases, does not reasonably provide enablement for <u>all</u> raw material gases. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims. In paragraph [0214] of the patent application publication of this application: "As the raw material gas there may be used a hydrocarbon-based gas such as natural gas and propane gas, but in

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the present embodiment, a city gas 13A which is a mixture of methane, ethane, propane and butane gas was used".

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claims 1 and 7 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: while being enabling for hydrocarbon-based gases, does not reasonably provide enablement for all raw material gases.
- 6. Claims 9 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. Regarding claim 9, the preamble of "A program of computer-controlling the purging step of purging", renders the claim indefinite because it is unclear, since this claim is ultimately dependent on the method claim 7.
- 8. Regarding claim 10, the wording: "A recording medium carrying the program according to claim 9 which can be processed by a computer", renders the claim indefinite because the wording of the claim is ambiguous.

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Allowable Subject Matter

 Claims 1 and 7 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112. 2nd paragraph, set forth in this Office action.

- 10. Claims 2-6 and 8-11 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 11. The following is a statement of reasons for the indication of allowable subject matter: Applicant claims a fuel cell system comprising raw materials, wherein raw materials comprise hydrogen and carbon, and a control means which controls the fuel gas supplying means, the oxidizing agent gas supplying means and the raw material gas supplying means such that during the starting of electricity generation of the fuel cell, the raw material gas supplying means purges at least the cathode side with the raw material gas, in which a sulfur compound is removed, before the fuel gas supplying means and the oxidizing agent gas supplying means supply the fuel gas and the oxidizing agent gas to the fuel cell, respectively. Applicant claims a method of starting a fuel cell system comprising a purging step of purging, during the starting of electricity generation of the fuel cell, at least the cathode side with a raw material gas to be used in the production of the fuel gas, in which a sulfur compound is removed, before the fuel gas and the oxidizing agent gas are supplied to the fuel cell.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANGELA J. MARTIN whose telephone number is (571)272-1288. The examiner can normally be reached on Monday-Friday from 10:00 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dah-Wei Yuan can be reached on 571-272-1295. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AJM /Angela J. Martin/ Examiner, Art Unit 1727